

A B S T R A C T

A method for producing a digital topographic map, comprising the following steps of: a step for dividing a basic map, which is produced through UTM drawing method, into grid-like sectors at a predetermined distance, and further dividing the sector obtained into a smaller one (4), thereby producing small sectors while interpolating discontinuous data being in short between each sectors and within each of the sectors; a step for producing digital data by relating x,y coordinates of the small sector (4) obtained and a sea level obtained through measurement, upon basis of an algorithm having a rationality, and connecting the small sectors (4) being same in the sea level thereof with a straight line, thereby producing a first topographic map (5), on which contour lines (6) are formed with lines of segments; and a step for conducting a smoothing process upon the contour lines (6) of said first topographic map (5), mathematically, thereby producing a second topographic map (7), on which the contour lines (6) are formed with curved lines, being smoother than the contour liens (6) of said first topographic map, which are formed with the lines of segments, thereby enabling to obtain the digital topographic map, displaying the contour lines (6) with smoothly curved lines thereon.